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ABSTRACT

Ten tables present equivalent scores between the 1978 Metropolitan Achievement Tests and the 1973 Stanford Achievement Test in terms of grade equivalent (GE) scores. These data were derived empirically by administering the two tests to two groups of students matched in terms of Otis-Lennon Mental Ability Test scores. Equivalent GEs were determined separately for each battery level of Metropolitan and Stanford. Stanford TASK conversions (grade 10) are given in terms of scaled scores, since GEs are not provided for the TASK series. Steps are listed to translate a GE from the 1973 Stanford series into a comparable GE on the 1978 Metropolitan. The included grade-based tables (kindergarten-grade 10) are recommended for making specific score translations. In addition, one table summarizes the data and provides a quick overview of the grade-equivalent relationship between the two test series. (RL)

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Metropolitan Achievement Tests

1978 Edition

Special Report

NUMBER 21

ED194554

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Equivalent Grade Equivalent Scores between Metro '78 and the 1973 Stanford Achievement Test

The following tables present equivalent scores between the 1978 Metropolitan Achievement Tests and the 1973 Stanford Achievement Test in terms of grade equivalent (GE) scores. These data were derived empirically by administering the two tests to two groups of students matched in terms of Otis-Lennon Mental Ability Test scores. Equivalent GEs were determined separately for each battery level of Metropolitan and Stanford. Stanford TASK conversions (Grade 10) are given in terms of scaled scores, since GEs are not provided for the TASK series. To translate a GE from the 1973 Stanford series into a comparable GE on the 1978 Metropolitan, take the following steps:

1. Locate the appropriate grade/battery level table.
2. Find the test or total score to be converted. Note that in the column headings, the Metropolitan test names (labelled "M" at the beginning of the row) are on top; the Stanford (labelled "S") are on the second row.
3. Reading down the appropriate test column, find the Stanford grade equivalent score.

TM 800683

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4. Convert this Stanford GE to a Metropolitan GE by reading across to the left-hand marginal column. For example, a Stanford Primary I Total Reading GE of 2.4 converts to a Metropolitan Reading GE of 2.0.

If a particular Stanford GE appears more than once in a column, use the asterisked figure for translation. If a given Stanford GE score is not tabled, use the next-higher tabled GE for conversion. Finally, conversions are not provided for extreme GE values at each level. Because these scores occur so rarely, no reliable conversions could be provided for them.

The research program that yielded these data was designed only to provide equivalencies in terms of 1973 Stanford and 1978 Metropolitan grade equivalent scores. These data are not appropriate for making generalizations concerning changes over time in the relative achievement of American students in the basic skills areas.

The grade-based tables on the following pages are recommended for making specific score translations. The table below, however, summarizes these data and provides a quick overview of the grade-equivalent relationship between the two test series. The summary below was obtained from the grade-based tables by converting each tabled MAT equivalent to a corresponding SAT score using the grade-based table for the appropriate "on-level" battery.

SUMMARY OF SCORE RELATIONSHIPS ACROSS GRADES

MAT Grade Equiv.	SAT Grade Equivalent						
	Rdg. Comp.	Total Math	Lang.	Science	Social Studies	Basic Battery	Complete Battery
10.0	10.5	11.2	10.7	9.9	10.6	10.6	10.6
9.0	9.5	10.1	10.0	9.4	9.7	9.8	9.7
8.0	8.5	8.9	9.1	8.7	8.7	8.8	8.8
7.0	7.6	7.6	7.5	7.6	7.2	7.7	7.7
6.0	6.4	6.2	6.3	6.2	6.0	6.2	6.3
5.0	5.5	5.1	4.9	5.3	5.1	5.1	5.2
4.0	4.7	4.0	4.4	4.4	4.5	4.3	4.2
3.0	3.4	3.0	3.3	3.1	3.4	3.3	3.6
2.0	2.4	2.0	2.3			2.2	
1.0	K.8	1.2	K.9			1.2	

EQUIVALENT GRADE EQUIVALENT SCORES BETWEEN THE
1978 METROPOLITAN ACHIEVEMENT TESTS AND THE 1973 STANFORD ACHIEVEMENT TEST

Metropolitan '78 - Preprimer
Stanford '73 SESAT - Level I Grade - Kindergarten

MAT '78 Grade Equiv.	Stanford SESAT Grade Equivalents		
	M: Mathematics S: Mathematics	Language Aural Comp.	Basic Battery Total
2.0	2.1		
1.9	1.8	3.3	
1.8	1.6	3.1	
1.7	1.5*	3.0	
1.6	1.5	2.9	3.1
1.5	1.4	2.8	3.0
1.4	1.4*	2.6	2.6
1.3	1.4	2.3	2.1
1.2	1.3	2.0	1.8
1.1	1.3*	1.8	1.6
1.0	1.3	1.6	1.4
k.9	1.2	1.4	1.2
k.8	1.2*	1.2	1.0
k.7	1.2	k.9	k.7
k.6	1.1*	k.8	k.5
k.5	1.1	k.6	k.3
k.4	1.0	k.4	k.2
k.3	k.9	k.2	k.1
k.2	k.8	k.1	k.0
k.1	k.6	k.0	
k.0	k.3		

EQUIVALENT GRADE EQUIVALENT SCORES BETWEEN THE
1978 METROPOLITAN ACHIEVEMENT TESTS AND THE 1973 STANFORD ACHIEVEMENT TEST

Metropolitan '78 - Primer
Stanford '73 SESAT - Level II Grade - 1

MAT'78 Grade Equiv.	Stanford SESAT Grade Equivalents				
	M: Mathematics S: Mathematics	Language Aural Comp.	Reading Word Rdg.	Reading Sent. Rdg.	Basic Battery Total
3.0	3.2	3.5		3.8	
2.9	3.1	3.5*	3.3	3.7	
2.8	3.0	3.4	3.2	3.6	
2.7	2.9	3.3	3.1	3.5	
2.6	2.8	3.2	3.0	3.4	
2.5	2.6	3.1	2.9	3.2	
2.4	2.5	3.0	2.8	3.0	
2.3	2.4	2.9	2.7	2.8	
2.2	2.2	2.8	2.5	2.6	3.8*
2.1	2.1	2.7	2.4	2.5	3.8
2.0	1.9	2.6	2.3	2.4*	3.7
1.9	1.8	2.4	2.2	2.4	3.6
1.8	1.7	2.2	2.1	2.3	3.4
1.7	1.7*	2.1	2.0*	2.2	3.0
1.6	1.6	2.0	2.0	2.0	2.5
1.5	1.5*	1.8	1.9	1.8	2.1
1.4	1.5	1.6	1.8	1.6	1.9
1.3	1.4*	1.4	1.7	1.4	1.7
1.2	1.4	1.2	1.6	1.2	1.5
1.1	1.3	1.0	1.5	1.0	1.4
1.0	1.2	k.9	1.4	k.8	1.2
k.9	1.2*	k.8	1.3	k.7	1.0
k.8	1.1*	k.7	1.2	k.6	k.8
k.7	1.1	k.5	1.1	k.5	k.6
k.6	1.0*	k.4	1.0	k.4	k.4
k.5	1.0	k.3	k.8	k.3	k.2
k.4	k.9	k.2	k.5	k.2	k.1*
k.3	k.7	k.1*	k.3	k.1	k.1
k.2	k.5	k.1	k.2	k.1*	k.0
k.1	k.3	k.0*	k.1	k.0	
k.0	k.1	k.0	k.0		

EQUIVALENT GRADE EQUIVALENT SCORES BETWEEN THE
1978 METROPOLITAN ACHIEVEMENT TESTS AND THE 1973 STANFORD ACHIEVEMENT TEST

Metropolitan '78 - Primary 1
Stanford '73 - Primary I Grade - 2

MAT'78 Grade Equiv.	Stanford Grade Equivalents					
	M: Reading		Mathematics	Language		Basic Battery
	S: Reading B	T. Reading	T. Math	Listening	T. Auditory	T. Battery
4.0	3.6	4.8	4.1	4.1	3.6	4.4
3.9	3.6	4.8*	4.1*	4.0	3.5	4.3*
3.8	3.6*	4.8	4.0	3.9	3.4*	4.3
3.7	3.6	4.7	3.9	3.8*	3.4	4.2
3.6	3.5	4.6	3.8	3.8	3.3*	4.2*
3.5	3.5*	4.4	3.6	3.7	3.3	4.1
3.4	3.4	4.2	3.4	3.6	3.2	4.1*
3.3	3.4*	4.0	3.3	3.5	3.2*	4.0
3.2	3.3	3.9	3.2	3.4	3.1	3.9
3.1	3.2	3.8	3.1	3.2	3.0*	3.8
3.0	3.2*	3.7*	3.0	3.1	3.0	3.6
2.9	3.1	3.7	2.9	3.0	2.9	3.4
2.8	3.0	3.6	2.8	2.9	2.8*	3.2
2.7	2.9*	3.5	2.7	2.8	2.8	3.0
2.6	2.9	3.4	2.6	2.7	2.7	2.8
2.5	2.8	3.3	2.5	2.6	2.6	2.7
2.4	2.7	3.1	2.4	2.5	2.6*	2.6
2.3	2.6	3.0	2.3	2.4	2.5	2.5
2.2	2.6*	2.8	2.2	2.3	2.4	2.4
2.1	2.5	2.6	2.1	2.2	2.4*	2.3
2.0	2.4	2.4	2.0	2.1	2.3	2.2
1.9	2.3	2.3	1.9	2.0	2.2	2.1
1.8	2.2	2.2	1.8*	1.9	2.1	2.0
1.7	2.1	2.1	1.8	1.8	1.9	2.0*
1.6	2.0	1.9	1.7	1.6	1.8	1.9
1.5	1.9	1.8	1.6	1.5	1.6	1.8
1.4	1.7	1.7	1.5	1.3	1.5	1.7
1.3	1.5	1.6	1.5*	1.2	1.4	1.5
1.2	1.3	1.5	1.4	1.0	1.2	1.4
1.1	1.1	1.4	1.3	k.9	1.1	1.2
1.0	k.9	1.3	1.2	k.7	1.0	1.1
k.9	k.7	1.2	1.2*	k.6	k.9*	k.9
k.8	k.6	1.1	1.1	k.5	k.9	k.8
k.7	k.5*	1.0*	1.0	k.4	k.8*	k.6
k.6	k.5	1.0	k.9*	k.3*	k.8	k.5
k.5	k.4	k.9*	k.9	k.3	k.8	k.4
k.4	k.4*	k.9	k.8	k.2	k.7	k.3
k.3	k.4	k.9	k.7*	k.1	k.7*	k.2
k.2	k.3	k.8	k.7	k.1*	k.7	k.1
k.1	k.3*	k.8*	k.6	k.0*	k.6*	k.0*
k.0	k.3	k.8	k.5	k.0	k.6	k.0

EQUIVALENT GRADE EQUIVALENT SCORES BETWEEN THE
1978 METROPOLITAN ACHIEVEMENT TESTS AND THE 1973 STANFORD ACHIEVEMENT TEST

Metropolitan '78 - Primary 2
Stanford '73 - Primary II Grade - 3

MAT'78 Grade Equiv.	Stanford Grade Equivalents								
	M: Reading		Math	Language		Soc. Studies	Science	Basic Batt.	Comp. Batt.
	S:Rdg.B	T. Rdg.	T. Math	List.	T. Audit.	Soc. Science	Science	Basic Batt.	Comp. Batt.
5.0	4.7	5.0	4.7	4.7	4.6*	4.9*	4.9	4.9	5.2*
4.9	4.6*	4.9*	4.6*	4.6	4.6	4.9	4.8*	4.8	5.2
4.8	4.6	4.9	4.6	4.5*	4.5	4.8*	4.8	4.7	5.1
4.7	4.5*	4.8	4.5	4.5	4.5*	4.8	4.7	4.6*	5.0
4.6	4.5	4.8*	4.4*	4.4	4.5	4.8	4.6*	4.6	4.9
4.5	4.4*	4.7	4.4	4.4*	4.4	4.7	4.6	4.5*	4.7
4.4	4.4	4.7*	4.3	4.3	4.4*	4.7*	4.5	4.5	4.6
4.3	4.3	4.6	4.2*	4.3*	4.3	4.6	4.4	4.4*	4.5
4.2	4.2	4.6*	4.2	4.2	4.3*	4.5	4.3	4.4	4.4*
4.1	4.1	4.5	4.1	4.2*	4.2	4.5*	4.2	4.3*	4.4
4.0	4.0	4.4	4.0	4.1	4.2*	4.4	4.1	4.3	4.3
3.9	3.9*	4.4*	3.9	4.1*	4.1	4.3	4.0	4.2	4.2*
3.8	3.9	4.3	3.8	4.0	4.0	4.2	3.9	4.1	4.2
3.7	3.8*	4.2	3.7	3.9*	3.9	4.0	3.8	4.0	4.1
3.6	3.8	4.2*	3.6	3.9	3.8	3.9	3.7	3.9	4.0
3.5	3.7*	4.1	3.5	3.8	3.7	3.8	3.6	3.8	3.9
3.4	3.7	4.0	3.4	3.7	3.6	3.7	3.5	3.7	3.8*
3.3	3.6	3.9	3.3	3.6	3.5	3.6	3.4	3.6	3.8
3.2	3.5	3.8	3.2	3.5	3.4	3.5	3.3	3.5	3.7
3.1	3.4*	3.7	3.1	3.4	3.4*	3.5*	3.2	3.4	3.6*
3.0	3.4	3.6	3.0	3.3	3.3	3.4	3.1	3.3*	3.6
2.9	3.3	3.5	2.9	3.2	3.2	3.3	3.0	3.3	3.5
2.8	3.2	3.4	2.8	3.1	3.1	3.3*	2.9	3.2	3.4
2.7	3.1	3.3	2.7	3.0	3.0	3.2	2.8	3.1	3.2
2.6	3.1*	3.2	2.6	2.9	2.9	3.1	2.7	3.1*	3.1
2.5	3.0	3.1	2.5	2.8	2.8	3.0	2.6	3.0	2.9
2.4	2.9	2.9	2.4	2.6	2.6	2.9	2.6*	2.9	2.8
2.3	2.8	2.8	2.3	2.5	2.5	2.8	2.5	2.8	2.6
2.2	2.6	2.7	2.2	2.3	2.4	2.7	2.4	2.7	2.5
2.1	2.5	2.5	2.1	2.2	2.3	2.6	2.3	2.6	2.4
2.0	2.3	2.4	2.0*	2.0	2.2	2.5	2.2	2.5	2.3
1.9	2.2	2.2	2.0	1.9	2.1	2.4*	2.1*	2.3	2.2
1.8	2.0	2.0	1.9	1.7	1.9	2.4	2.1	2.1	2.1
1.7	1.9	1.8	1.8	1.5	1.8	2.3	2.0	1.9	2.0
1.6	1.7	1.6	1.8*	1.3	1.7	2.2	1.9	1.7	1.9
1.5	1.6	1.5	1.7	1.2	1.6	2.1	1.8	1.5	1.8
1.4	1.4	1.4	1.6	1.1	1.5	2.0	1.8*	1.4	1.7
1.3	1.3	1.3	1.5	1.0	1.4	1.9	1.7	1.3	1.7*
1.2	1.1	1.2	1.5*	k.9	1.3	1.8	1.6	1.2	1.6
1.1	1.0	1.1	1.4	k.8	1.2	1.7	1.5	1.1	1.5
1.0	k.8	1.0	1.4*	k.7	1.1	1.5	1.4	1.0	1.5*

EQUIVALENT GRADE EQUIVALENT SCORES BETWEEN THE
1978 METROPOLITAN ACHIEVEMENT TESTS AND THE 1973 STANFORD ACHIEVEMENT TEST

Metropolitan '78 - Elementary
Stanford '73 - Primary III

Grade - 4

MAT'78	Stanford Grade Equivalents									
Grade	M: Reading		Math	Lang.	Language		Soc. Studies	Science	Basic Batt.	Comp. Batt.
Equiv.	S:Rdg.	T. Rdg.	T. Math	Lang.	List.	T. Audit	Soc. Science	Science	Basic Batt.	Comp. Batt.
6.0	5.7*	6.1	5.3	5.5	5.7	5.3*	5.5*	5.5*	5.7	5.7
5.9	5.7	6.0	5.3*	5.5*	5.6	5.3	5.5	5.5	5.6	5.7*
5.8	5.6*	5.9	5.3	5.4*	5.5	5.2	5.4*	5.4*	5.5	5.6
5.7	5.6	5.8	5.2	5.4	5.4	5.1	5.4	5.4	5.4	5.5*
5.6	5.5	5.7*	5.1	5.3	5.3	5.1*	5.4	5.3	5.3*	5.5
5.5	5.5*	5.7	5.1*	5.2*	5.2	5.0	5.3	5.3*	5.3	5.4
5.4	5.5	5.6	5.0*	5.2	5.1	5.0*	5.3*	5.3	5.2	5.3*
5.3	5.4	5.6*	5.0	5.1	5.0*	4.9	5.2	5.2	5.1*	5.3
5.2	5.4*	5.6	4.9	5.0*	5.0	4.9*	5.2*	5.2*	5.1	5.2*
5.1	5.4	5.5*	4.9*	5.0	4.9*	4.9	5.2	5.1*	5.0	5.2
5.0	5.3*	5.5	4.8	4.9	4.9	4.8*	5.1	5.1	4.9	5.1
4.9	5.3	5.4	4.8*	4.9*	4.8	4.8	5.1*	5.0*	4.8	5.0
4.8	5.2*	5.4*	4.7*	4.9	4.8*	4.7	5.0	5.0	4.7	4.9
4.7	5.2	5.3	4.7	4.8	4.7	4.7*	5.0*	4.9*	4.6	4.8
4.6	5.1	5.3*	4.6	4.8*	4.7*	4.6	4.9	4.9	4.6*	4.7
4.5	5.0	5.2	4.5	4.7	4.6	4.6*	4.8*	4.8	4.5	4.6
4.4	5.0*	5.1	4.4	4.7*	4.5	4.5*	4.8	4.7*	4.5*	4.5
4.3	4.9*	5.0*	4.3	4.6	4.4	4.5	4.7	4.7	4.4	4.4
4.2	4.9	5.0	4.2	4.5	4.3	4.4*	4.6	4.6	4.4*	4.3*
4.1	4.8	4.9	4.1	4.4*	4.3*	4.4	4.5	4.5	4.3*	4.3
4.0	4.7	4.8	4.0	4.4	4.2	4.3	4.5*	4.4	4.3	4.2
3.9	4.6	4.7	3.9	4.3	4.1	4.3*	4.4	4.3	4.2	4.1
3.8	4.5*	4.6	3.8*	4.2	4.0	4.2	4.3	4.2	4.1	4.1*
3.7	4.5	4.5	3.8	4.1	3.9	4.1	4.2	4.1	4.0	4.0
3.6	4.4	4.4	3.7	4.0	3.8	4.0	4.1	4.0	3.9	4.0*
3.5	4.3	4.3	3.6*	3.8	3.7	3.9	4.0	3.9	3.8	3.9
3.4	4.2	4.1	3.6	3.7	3.5	3.7	4.0*	3.8	3.7	3.9*
3.3	4.1	4.0	3.5	3.6	3.4	3.6	3.9	3.7	3.6	3.8
3.2	4.0	3.9	3.4	3.4	3.3	3.5	3.9*	3.6	3.5	3.8*
3.1	3.9	3.8	3.4*	3.3	3.2	3.4	3.8	3.5	3.4	3.8
3.0	3.7	3.6	3.3	3.2	3.2*	3.3	3.8*	3.5*	3.3	3.7*
2.9	3.6	3.5	3.2	3.1	3.1	3.3*	3.7	3.4	3.3*	3.7
2.8	3.5	3.4	3.1	3.0	3.0	3.2	3.6	3.3	3.2	3.6
2.7	3.4	3.3	3.0	2.9	2.9	3.1	3.5	3.3*	3.1	3.5
2.6	3.2	3.1	2.9	2.8	2.8	3.0	3.4	3.2	3.1*	3.4
2.5	3.1	3.0	2.8	2.7	2.7	2.9	3.3	3.1	3.0	3.3
2.4	3.0	2.9	2.7	2.6	2.6	2.8	3.2	3.0	3.0*	3.2
2.3	2.8	2.8	2.6	2.5	2.6*	2.7	3.0	2.9	2.9	3.0
2.2	2.6	2.7	2.5	2.4	2.5	2.6	2.9	2.8	2.8	2.9
2.1	2.4	2.6	2.4	2.3	2.4*	2.5	2.8	2.7	2.7	2.7
2.0	2.2	2.4	2.3	2.2	2.4	2.4	2.6	2.6	2.6	2.6

EQUIVALENT GRADF EQUIVALENT SCORES BETWEEN THE
1978 METROPOLITAN ACHIEVEMENT TESTS AND THE 1973 STANFORD ACHIEVEMENT TEST

Metropolitan '78 - Intermediate
Stanford '73 - Intermediate I Grade - 5

MAT'78 Grade Equiv.	Stanford Grade Equivalents							
	M: Reading		Math	Language	Soc. Studies	Science	Basic Batt.	Comp. Batt.
	S:Rdg.	T. Rdg.	T. Math	Language	Soc. Studies	Science	Basic Batt.	Comp. Batt.
7.0	7.1	7.5	7.2	6.5	6.6	6.8	7.1	7.3
6.9	7.0	7.4	7.1	6.4	6.5*	6.7	7.0	7.2
6.8	7.0*	7.3	7.0	6.3	6.5	6.7*	6.9	7.1
6.7	6.9	7.2	6.9	6.2	6.4	6.6	6.7	7.0
6.6	6.8	7.1	6.8	6.1	6.3	6.5	6.6	6.8
6.5	6.7	7.0	6.7	6.0	6.2	6.5*	6.4	6.7
6.4	6.6	6.8	6.6	5.9*	6.2*	6.4	6.3	6.5
6.3	6.5	6.7	6.4	5.9	6.1	6.3	6.2	6.4
6.2	6.5*	6.6	6.3	5.8	6.0	6.2	6.1	6.3
6.1	6.4	6.5	6.2	5.7*	5.9*	6.1	6.0*	6.1
6.0	6.3	6.4	6.1*	5.7	5.9	6.0	6.0	6.0
5.9	6.2	6.3	6.1	5.6	5.8*	5.9*	5.9	5.9
5.8	6.1	6.2	6.0	5.5*	5.8	5.9	5.8	5.8
5.7	6.0	6.1	5.9	5.5	5.7	5.8	5.7*	5.7
5.6	5.9	6.0	5.8	5.4	5.6	5.7	5.7	5.6
5.5	5.9*	5.9	5.7	5.3	5.6*	5.6	5.6	5.5
5.4	5.8	5.8	5.6	5.3*	5.5	5.5	5.5	5.4
5.3	5.7*	5.7*	5.4	5.2	5.4	5.4*	5.4	5.3*
5.2	5.7	5.7	5.3	5.1	5.3	5.4	5.3	5.3
5.1	5.6	5.6	5.2	5.0	5.2	5.3	5.2	5.2
5.0	5.5	5.5	5.1	4.9*	5.1	5.3*	5.1	5.2*
4.9	5.5*	5.4	5.0	4.9	5.0	5.2	5.0	5.1
4.8	5.4*	5.3	4.9	4.8	4.9*	5.2*	4.9	5.0
4.7	5.4	5.3*	4.8	4.7	4.9	5.1*	4.8	4.9
4.6	5.3	5.2	4.7	4.6	4.8	5.1	4.7	4.8
4.5	5.2	5.1	4.6	4.5	4.7*	5.0*	4.6	4.7
4.4	5.1	5.0	4.5	4.5*	4.7	5.0	4.5	4.6
4.3	5.0	4.9	4.4	4.4	4.6	4.9	4.4	4.5
4.2	4.9	4.9*	4.4*	4.3	4.5*	4.9*	4.4*	4.4
4.1	4.8	4.8	4.3	4.2	4.5	4.8	4.3	4.3
4.0	4.7	4.7	4.2*	4.1	4.4	4.7	4.2	4.2
3.9	4.5	4.6	4.2	4.0	4.3	4.6	4.1	4.1
3.8	4.4	4.5	4.1	3.8	4.2	4.5	4.0	4.0*
3.7	4.3	4.4	4.0	3.7	4.1*	4.4	3.9	4.0
3.6	4.2	4.3	3.9	3.6	4.1	4.3	3.8	3.9
3.5	4.1	4.2	3.8	3.5	4.0	4.2	3.7	3.8
3.4	4.0	4.1	3.7	3.3	3.9	4.1	3.6	3.7
3.3	3.9	4.0	3.6	3.1	3.8	4.0	3.5	3.6
3.2	3.8	3.9	3.5	2.9	3.6	3.9	3.4	3.5
3.1	3.7	3.8	3.4	2.8	3.5	3.8	3.3	3.4
3.0	3.6	3.7	3.2	2.6	3.4	3.7	3.1	3.2

EQUIVALENT GRADE EQUIVALENT SCORES BETWEEN THE
1978 METROPOLITAN ACHIEVEMENT TESTS AND THE 1973 STANFORD ACHIEVEMENT TEST

Metropolitan '78 - Intermediate
Stanford '73 - Intermediate II Grade - 6

MAT'78 Grade Equiv.	Stanford Grade Equivalents							
	M: Reading		Math	Language	Soc. Studies	Science	Basic Batt.	Comp. Batt.
	S: Rdg.	T. Rdg.	T. Math	Language	Soc. Studies	Science	Basic Batt.	Comp. Batt.
9.0	8.4	8.8	8.7	9.2	9.1	8.3	9.0	9.4
8.9	8.3	8.7	8.6*	9.1	8.9	8.2*	8.9	9.2
8.8	8.2	8.6*	8.6	9.0	8.8	8.2	8.8*	9.1
8.7	8.2*	8.6	8.5	8.9	8.7	8.2	8.8	9.0
8.6	8.1	8.5	8.5*	8.8*	8.6	8.1*	8.7	8.9
8.5	8.0	8.4	8.4	8.8	8.5	8.1	8.6	8.8
8.4	7.9*	8.3*	8.3	8.7	8.4	8.1	8.5	8.7
8.3	7.9	8.3	8.3*	8.6	8.3	8.0*	8.4	8.6
8.2	7.8*	8.2*	8.2	8.5*	8.2	8.0	8.3	8.5
8.1	7.8	8.2	8.1	8.5	8.0	7.9	8.2	8.4
8.0	7.7*	8.2	8.0	8.4	7.9	7.8*	8.1	8.3
7.9	7.7	8.1	7.9	8.3	7.8	7.8	8.0	8.2
7.8	7.6	8.1*	7.8	8.2	7.7	7.7	7.9*	8.1
7.7	7.6*	8.0	7.7	8.1	7.6	7.6	7.9	8.0
7.6	7.5	8.0*	7.6	8.0	7.5	7.5	7.8	7.9
7.5	7.5*	8.0	7.6*	7.8	7.3	7.4	7.8*	7.8
7.4	7.4	7.9	7.5	7.7	7.2	7.3	7.7	7.7
7.3	7.3*	7.8	7.4	7.5	7.1	7.2	7.6	7.6
7.2	7.3	7.7	7.3	7.4	7.0	7.1	7.5	7.5
7.1	7.2	7.6	7.2	7.2	6.9*	7.0	7.4	7.4
7.0	7.1	7.5	7.1*	7.1	6.9	6.9	7.3	7.3
6.9	7.0	7.4	7.1	7.0	6.8*	6.8	7.2	7.2
6.8	6.9	7.3	7.0	6.9	6.8	6.8*	7.1	7.1
6.7	6.8	7.2	6.9	6.8	6.7	6.7	7.0	7.0
6.6	6.8*	7.1	6.8	6.8*	6.6	6.6	6.9	6.9*
6.5	6.7	7.0	6.7	6.7	6.5	6.6*	6.8	6.9
6.4	6.6	6.9	6.6	6.7*	6.4	6.5	6.7	6.8
6.3	6.5	6.8*	6.5	6.6	6.3	6.4	6.6	6.7
6.2	6.5*	6.8	6.4	6.5	6.2	6.3*	6.4	6.6
6.1	6.4	6.7	6.3	6.4	6.1	6.3	6.3	6.4
6.0	6.4*	6.6	6.2	6.3	6.0	6.2	6.2	6.3
5.9	6.3	6.5	6.1	6.2	6.0*	6.1	6.1	6.2
5.8	6.2	6.4	6.1*	6.1	5.9	6.0	6.0	6.1
5.7	6.1	6.3	6.0	6.0	5.9*	5.9*	5.9	6.0
5.6	6.0	6.2	5.9	5.9	5.8	5.9	5.8*	5.9
5.5	5.9*	6.1	5.8	5.8	5.7*	5.8	5.8	5.8
5.4	5.9	6.0	5.7	5.6	5.7	5.7	5.7	5.7
5.3	5.8	5.9	5.6	5.5	5.6	5.6	5.7*	5.6
5.2	5.7	5.9*	5.5	5.4	5.5	5.5	5.6	5.5*
5.1	5.7*	5.8	5.5*	5.3	5.4	5.4	5.6*	5.5
5.0	5.6	5.8*	5.4	5.2	5.3	5.3	5.5	5.4
4.9	5.6*	5.7	5.3*	5.1	5.3*	5.2	5.5*	5.3
4.8	5.5	5.6*	5.3	5.0	5.2	5.1	5.4	5.2
4.7	5.4*	5.6	5.2	4.9	5.2*	5.0	5.3	5.2*
4.6	5.4	5.5	5.1	4.7	5.2	4.9*	5.2	5.1
4.5	5.3	5.4	5.0	4.6	5.1*	4.9	5.1	5.1*
4.4	5.2	5.3	4.9	4.5	5.1	4.8	4.9	5.0
4.3	5.1	5.2	4.8	4.4	5.0	4.7	4.8	4.9
4.2	5.0*	5.1	4.7	4.3	4.9	4.7*	4.7	4.8
4.1	5.0	5.0	4.6*	4.2	4.9*	4.6	4.6	4.7
4.0	4.9	4.9	4.6	4.1	4.8	4.5	4.5	4.6

EQUIVALENT GRADE EQUIVALENT SCORES BETWEEN THE 1978 METROPOLITAN ACHIEVEMENT TESTS AND THE 1973 STANFORD ACHIEVEMENT TEST

Metropolitan '78 - Advanced 1
Stanford '73 - Advanced

Grades - 7-9

MAT'78 Grade Equiv.	Stanford Grade Equivalents							
	M: Reading		Math	Language	Soc. Studies	Science	Basic Batt.	Comp. Batt.
	S:Rdg.	T. Rdg.	T. Math	Language	Soc. Science	Science	Basic Batt.	Comp. Batt.
PHS	12.5		12.7*	12.9	12.4	12.9	12.8	
12.9	12.4		12.7	12.7	12.2	12.5	12.7	
12.8	12.3	12.9	12.6*	12.5	12.0	12.1	12.6	
12.7	12.2	12.8	12.6	12.3	11.9	11.8	12.5*	12.9
12.6	12.1	12.8*	12.5	12.1	11.8	11.5	12.5	12.8
12.5	12.0*	12.7	12.5*	12.0	11.7	11.3	12.4*	12.8*
12.4	12.0	12.7*	12.5	11.9	11.6	11.1	12.4	12.8
12.3	11.9*	12.6	12.4	11.8	11.5	11.0	12.3	12.8
12.2	11.9	12.6*	12.4*	11.7	11.4	10.9	12.3*	12.7
12.1	11.8*	12.5	12.4	11.6	11.3*	10.8	12.2	12.7
12.0	11.8	12.5*	12.3	11.5*	11.3	10.7*	12.1	12.7*
11.9	11.7*	12.4	12.3*	11.5	11.2	10.7	12.0	12.7
11.8	11.7	12.3	12.3	11.4*	11.2*	10.6	11.9	12.7
11.7	11.6*	12.2	12.2	11.4	11.2	10.6*	11.8	12.7
11.6	11.6	12.1	12.2*	11.3	11.1	10.6	11.7	12.6
11.5	11.6	11.9	12.2	11.3*	11.1	10.5*	11.6	12.6
11.4	11.5*	11.8	12.1*	11.3	11.1*	10.5	11.5*	12.6*
11.3	11.5	11.7	12.1	11.2	11.1	10.4*	11.5	12.6
11.2	11.4*	11.5	12.0*	11.2*	11.1	10.4	11.4	12.5
11.1	11.4	11.4	12.0	11.2	11.0	10.3	11.4*	12.5*
11.0	11.4	11.3	12.0	11.2	11.0	10.3*	11.3	12.4
10.9	11.3*	11.2	11.9	11.1	11.0*	10.3	11.2*	12.3
10.8	11.3	11.1	11.9*	11.1*	11.0	10.2	11.2	12.2
10.7	11.2	11.0	11.8	11.0	10.9*	10.2*	11.1*	12.0
10.6	11.1	10.9	11.7	11.0*	10.9	10.2	11.1	11.8
10.5	11.0	10.8	11.6	10.9*	10.8	10.1*	11.0	11.6
10.4	10.9	10.7	11.5*	10.9	10.8*	10.1	10.9	11.4
10.3	10.8	10.6	11.5	10.8	10.8	10.0	10.8	11.2
10.2	10.7	10.5	11.4	10.8	10.7	10.0*	10.7	11.0
10.1	10.6	10.4	11.3	10.8*	10.7*	9.9*	10.6*	10.8
10.0	10.5	10.3	11.2	10.7	10.6	9.9	10.6	10.6
9.9	10.3	10.2	11.1	10.7*	10.6*	9.8	10.5	10.4
9.8	10.2	10.1*	11.0	10.6*	10.5	9.8*	10.4	10.3
9.7	10.1	10.1	10.9	10.6	10.4	9.7*	10.3	10.2
9.6	10.0	10.0	10.8	10.5	10.3	9.7	10.2	10.1
9.5	9.9	9.9	10.7	10.5*	10.2	9.6	10.1	10.0
9.4	9.8*	9.9*	10.6	10.4	10.1	9.6*	10.0*	9.9*
9.3	9.8	9.8	10.4	10.3	10.0	9.6	10.0	9.9
9.2	9.7	9.8*	10.3	10.2	9.9	9.5	9.9	9.8
9.1	9.6	9.7	10.2	10.1	9.8	9.5*	9.8	9.7*
9.0	9.5	9.6	10.1	10.0	9.7	9.4	9.8*	9.7
8.9	9.4	9.6*	10.0	9.9*	9.6	9.4*	9.7	9.6
8.8	9.3	9.5	9.9	9.9	9.5	9.4	9.6	9.5*
8.7	9.2	9.4	9.8	9.8	9.4	9.3	9.5	9.5
8.6	9.0	9.3	9.7	9.7	9.3	9.3*	9.4	9.4
8.5	8.9	9.2	9.6	9.6	9.2	9.2	9.3	9.3
8.4	8.8	9.1	9.4	9.5	9.1	9.1	9.2	9.2
8.3	8.7	9.0	9.3	9.4	9.0	9.0	9.1	9.1
8.2	8.6	8.9	9.1	9.3	8.9	8.9	9.0	9.0
8.1	8.5	8.8	9.0	9.2	8.8	8.8	8.9	8.9
8.0	8.5*	8.7	8.9	9.1	8.7	8.7	8.8	8.8
7.9	8.4	8.6	8.8	8.9	8.5	8.6	8.7	8.7
7.8	8.3	8.5	8.7	8.8	8.3	8.4	8.6	8.6
7.7	8.2	8.4	8.6	8.7	8.1	8.3	8.4	8.5
7.6	8.1	8.3	8.5	8.6	7.9	8.2	8.3	8.4
7.5	8.0	8.2	8.3	8.5	7.8	8.1	8.2	8.3
7.4	7.9	8.1	8.2	8.3	7.7	8.0	8.1	8.2
7.3	7.8*	8.0	8.0	8.1	7.6	7.9	8.0	8.1
7.2	7.8	7.9	7.9	7.9	7.5	7.8	7.9	8.0
7.1	7.7	7.8	7.7	7.7	7.4	7.7	7.8	7.9
7.0	7.6	7.7	7.6	7.5	7.2	7.6	7.7	7.7
6.9	7.5	7.6	7.4	7.3	7.1	7.5	7.6	7.6
6.8	7.4	7.5	7.3	7.1	6.9	7.4	7.4	7.4
6.7	7.3	7.4	7.1	7.0	6.8	7.3	7.3	7.3
6.6	7.2	7.3	7.0	6.8	6.7	7.2	7.1	7.1
6.5	7.1	7.2	6.8	6.7	6.6	7.1	7.0	7.0
6.4	7.0	7.1	6.7	6.5	6.5	7.0	6.8	6.8
6.3	6.9	7.0	6.6	6.4	6.4	6.9	6.7	6.7
6.2	6.8*	6.9	6.4	6.3	6.3	6.8	6.5	6.6
6.1	6.8	6.8	6.3	6.2	6.1	6.7	6.4	6.5
6.0	6.7	6.7	6.1	6.0	6.0	6.5	6.3	6.4
5.9	6.6	6.6	6.0	5.9	5.8	6.4	6.2	6.3
5.8	6.5	6.5	5.9	5.8	5.7	6.2	6.1	6.2
5.7	6.4	6.4	5.8	5.7	5.6	6.1	6.0	6.1
5.6	6.3	6.3	5.7	5.6	5.5	6.0	5.9*	6.0
5.5	6.2	6.2	5.6	5.5	5.4	5.9	5.9	5.9
5.4	6.1	6.1	5.5	5.4	5.3	5.8	5.8	5.8
5.3	6.0	6.0	5.4	5.3	5.2	5.7	5.7*	5.7
5.2	5.9	5.9	5.3	5.2	5.1	5.5	5.7	5.6
5.1	5.8	5.8	5.2	5.1	5.0	5.4	5.6*	5.5
5.0	5.7	5.7	5.1	5.0	4.9	5.3	5.6	5.4

EQUIVALENT SCORES BETWEEN THE
1978 METROPOLITAN ACHIEVEMENT TESTS AND THE 1973 STANFORD ACHIEVEMENT TEST

Metropolitan '78 - Advanced 2 (Grade Equivalents)
Stanford TASK - Level I (Scaled Scores) Grade - 10

MAT'78 Grade Equiv.	TASK Scaled Scores		
	M: Reading S: Reading	Language English	Mathematics Mathematics
PHS	208*	252	230
12.9	208	229	215
12.8	207	221	212
12.7	207*	218	210
12.6	206	216	209
12.5	205*	215	208
12.4	205	214*	207*
12.3	204*	214	207
12.2	204	213*	206*
12.1	203*	213	206
12.0	203	212*	205
11.9	202	212	204*
11.8	202*	211*	204
11.7	201*	211	203*
11.6	201	210*	203
11.5	200*	210	202
11.4	200	209*	201*
11.3	199	209	201
11.2	198	208	200*
11.1	198*	208*	200
11.0	197	208	199
10.9	197*	207	198*
10.8	197	207*	198
10.7	196	207	197
10.6	196*	206	197*
10.5	195	206*	196
10.4	194	206	196
10.3	193	205	196*
10.2	192	205*	195
10.1	191	204	195*
10.0	190	204*	194
9.9	189	203	194*
9.8	188	202	193
9.7	187	201	193*
9.6	185	200	192
9.5	184	199	192*
9.4	183	198	191
9.3	182	197	191
9.2	181	196	191*
9.1	180	195	190
9.0	179	194	190
8.9	178	193	190*
8.8	177	192	189
8.7	176	191	189*
8.6	175	190	189
8.5	174	189	188*
8.4	173	188	188
8.3	171	187	188
8.2	170	186	187
8.1	169	185	187*
8.0	168	184	187
7.9	167	183*	186
7.8	166	183	186*
7.7	165*	182	185
7.6	165	181	184
7.5	165	181*	183*
7.4	164	180	183
7.3	164*	179	182
7.2	164	178	181
7.1	164	177	180
7.0	163	177*	179
6.9	163*	176	178
6.8	163	175	177
6.7	162*	174	175
6.6	162	174*	174
6.5	161*	173	172
6.4	161	172*	171
6.3	161	172	169
6.2	160	171	167
6.1	159	171*	164
6.0	158	171	161